

Fig. 1

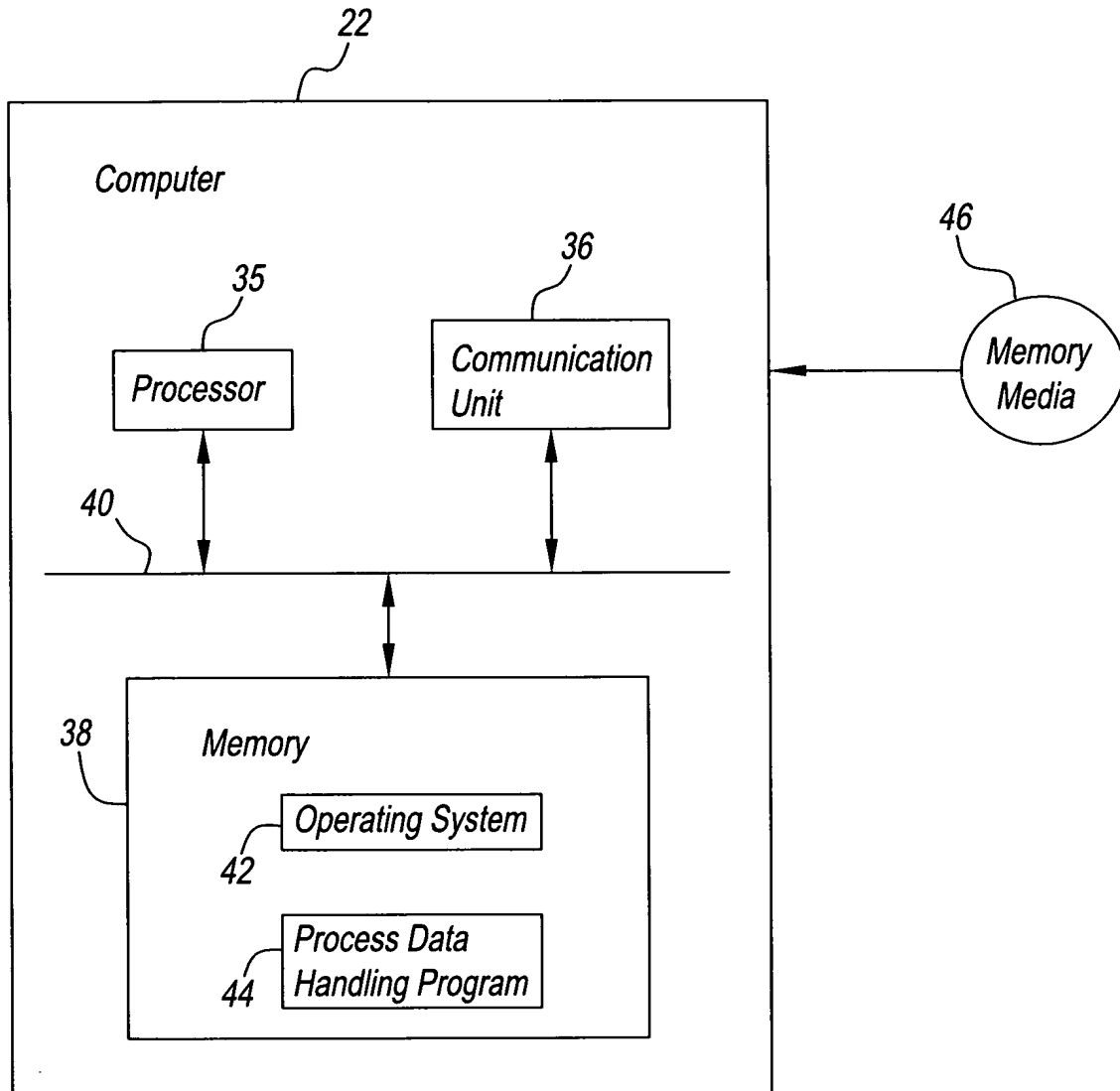
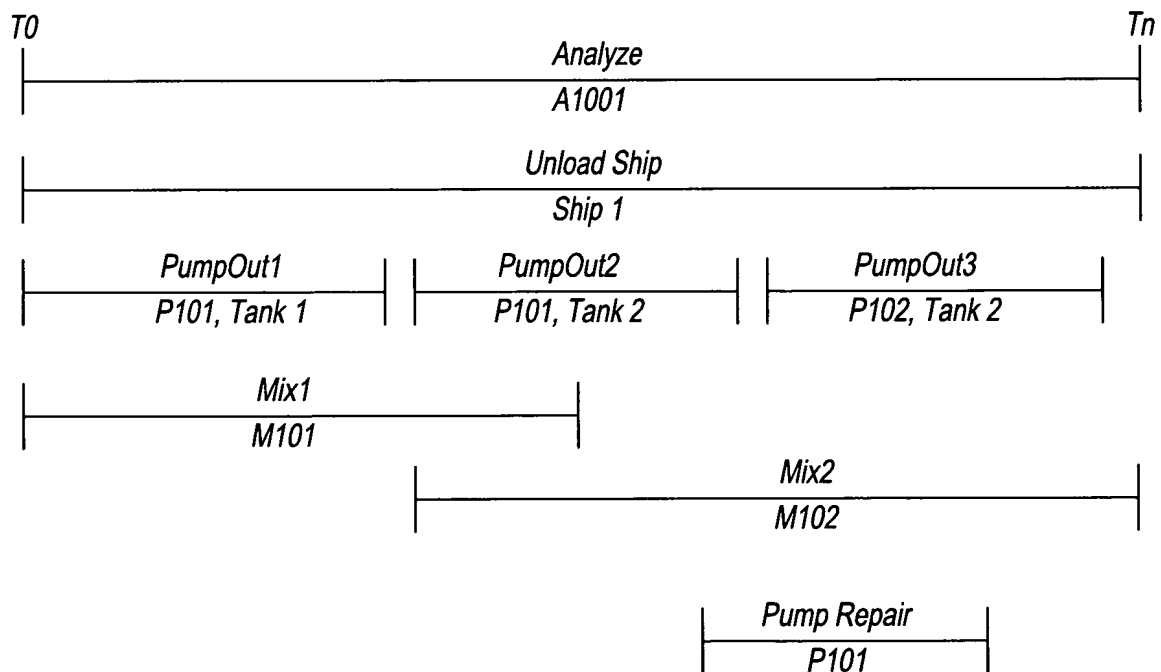
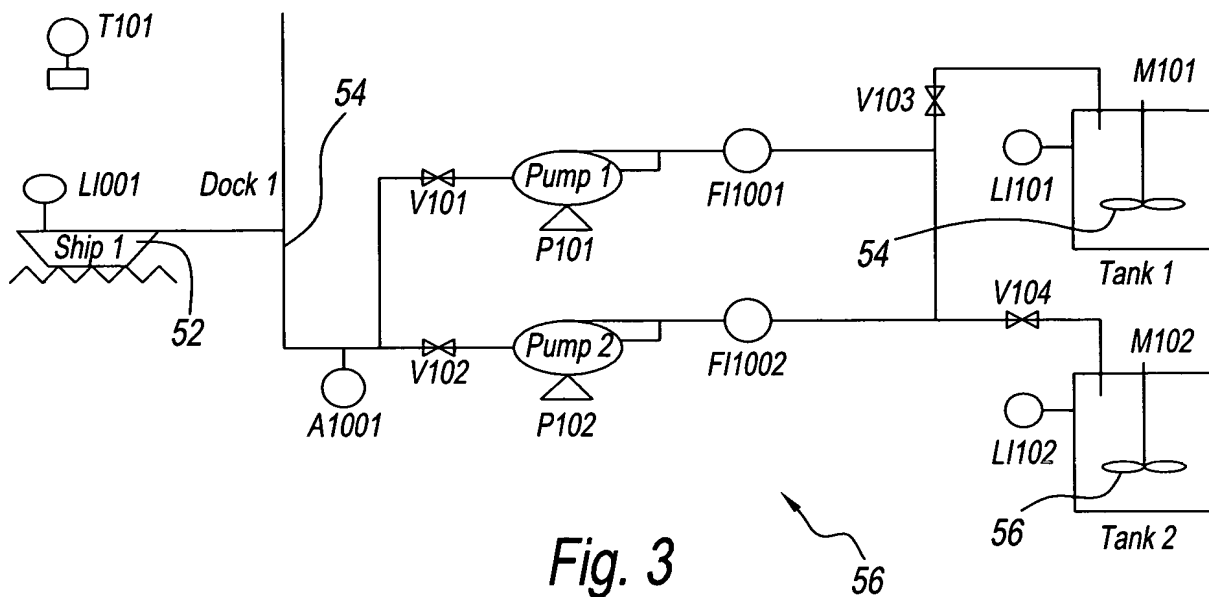


Fig. 2

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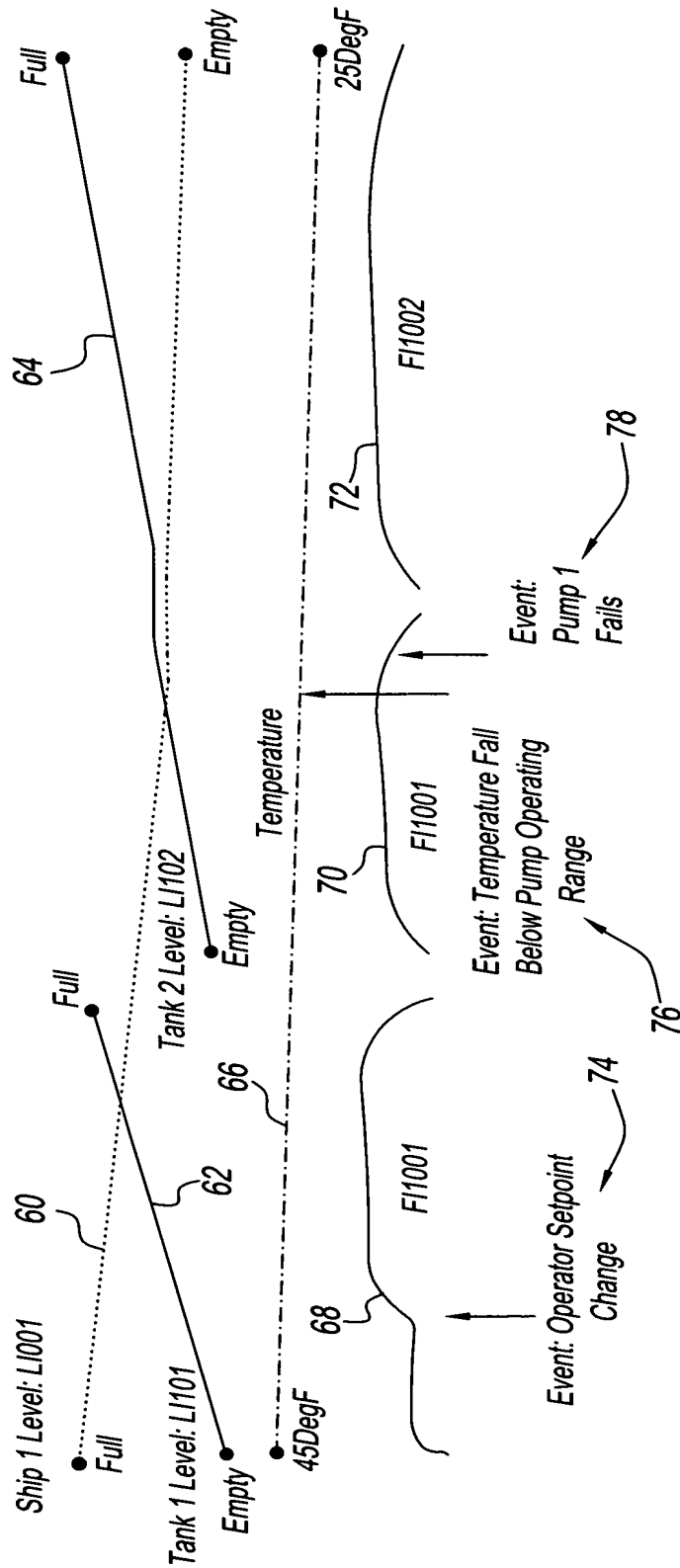


Fig. 5

80 →	Activity Type			
82 →	UnitOperation	Attribute Name	Static	Default Value
		StartTime	N	
		EndTime	N	
		ID	N	
		Equipment	N	
		FlowRate	N	
		AccumValue	N	
		Source	Y	ProdSystem
84 →	Event Type			
	Alarm	Attribute Name	Static	Default Value
		TimeStamp	N	
		Resource	N	
		Message	N	
		State	N	
		Source	Y	OprSystem
	OprChg	TimeStamp	N	
		Operator	N	
		Resource	N	
		Message	N	
		Command	N	
		Source	N	

Fig. 6

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History

Activity Type	Start Time	End Time	ID	Equipment	FlowRate	AccumValue
PumpOut	8/17/2000 10:00AM	8/17/2000 10:55AM	PumpOut1	Tank1	FI1001.PV	150,000
PumpOut	8/17/2000 11:05AM	8/17/2000 11:45AM	PumpOut2	Tank2	FI1001.PV	65,000
PumpOut	8/17/2000 12:05PM	8/17/2000 2:05PM	PumpOut3	Tank2	FI1002.PV	85,000
Event Type	Time Stamp	Resource	Message	State	Source	
Alarm	8/17/2000 11:35AM	T101	LowTemp	On	OprSystem	
Alarm	8/17/2000 11:40AM	P101	PumpFail	On	OprSystem	
Alarm	8/17/2000 11:45AM	P101	PumpFail	Off	OprSystem	
Event Type	Time Stamp	Operator	Resource	Message	Command	Source
OprChg	8/17/2000 10:20AM	JOE	P101	Speed	50	OprSystem
Event Type	Time Stamp	Operator	Device	Message	Command	Source
OprChg	8/17/2000 11:35AM	FRED	P101	RedTag	OutOfService	MaintSystem
OprChg	8/17/2000 1:35PM	FRED	P101	RedTag	InService	MaintSystem

Fig. 7

Instance

Pump Out Activities

Start Time	End Time	ID	Equipment	FlowRate	AccumValue	Source
8/17/2000 10:00AM	8/17/2000 10:55AM	PumpOut1	Tank1	FI1001.PV	150,000	ProdSystem
8/17/2000 11:05AM	8/17/2000 11:45AM	PumpOut2	Tank2	FI1001.PV	65,000	ProdSystem
8/17/2000 12:05PM	8/17/2000 2:05PM	PumpOut3	Tank2	FI1002.PV	85,000	ProdSystem

Alarm Events

Time Stamp	Resource	Message	State	Source
8/17/2000 11:35AM	T101	LowTemp	On	OprSystem
8/17/2000 11:40AM	P101	PumpFail	On	OprSystem
8/17/2000 11:45AM	P101	PumpFail	Off	OprSystem

OprChg Events

Time Stamp	Operator	Resource	Message	Command	Source
8/17/2000 10:20AM	JOE	P101	Speed	50	OprSystem
8/17/2000 11:35AM	FRED	P101	RedTag	OutOfService	MaintSystem
8/17/2000 1:35PM	FRED	P101	RedTag	InService	MaintSystem

Fig. 8

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Retreival

Rows

Event Type	Time Stamp	Attribute Name	Attribute Value
		Resource	T101
Alarm	8/17/2000 11.35AM	Message	LowTemp
		State	On
		Source	OprSystem
		Resource	P101
Alarm	8/17/2000 11.40AM	Message	PumpFail
		State	On
		Source	OprSystem
		Resource	P101
Alarm	8/17/2000 11.45AM	Message	PumpFail
		State	Off
		Source	OprSystem
		Operator	JOE
		Resource	P101
OprChg	8/17/2000 10:20AM	Message	Speed
		Command	50
		Source	OprSystem
		Operator	FRED
		Resource	PMP101
OprChg	8/17/2000 10:35AM	Message	RedTag
		Command	OutOfService
		Source	MaintSystem
		Operator	FRED
		Resource	PMP101
OprChg	8/17/2000 1:35PM	Message	RedTag
		Command	InService
		Source	MaintSystem

Fig. 9

Columns

Event Type	Time Stamp	Operator	Resource	Message	Command	State
Alarm	8/17/2000 11:35AM		T101	LowTemp		On
Alarm	8/17/2000 11:40AM		P101	PumpFail		On
Alarm	8/17/2000 11:45AM		P101	PumpFail		Off
OprChg	8/17/2000 10:20AM	JOE	P101	Speed	50	
OprChg	8/17/2000 10:35AM	FRED	PMP101	RedTag	OutOfService	
OprChg	8/17/2000 11:35AM	FRED	PMP101	RedTag	InService	

Fig. 10

Chart

Activity Type	End Time	ID	AccumValue
PumpOut	8/17/2000 10:55AM	PumpOut1	150,000
PumpOut	8/17/2000 11:45AM	PumpOut2	65,000
PumpOut	8/17/2000 2:05PM	PumpOut3	85,000

Fig. 11

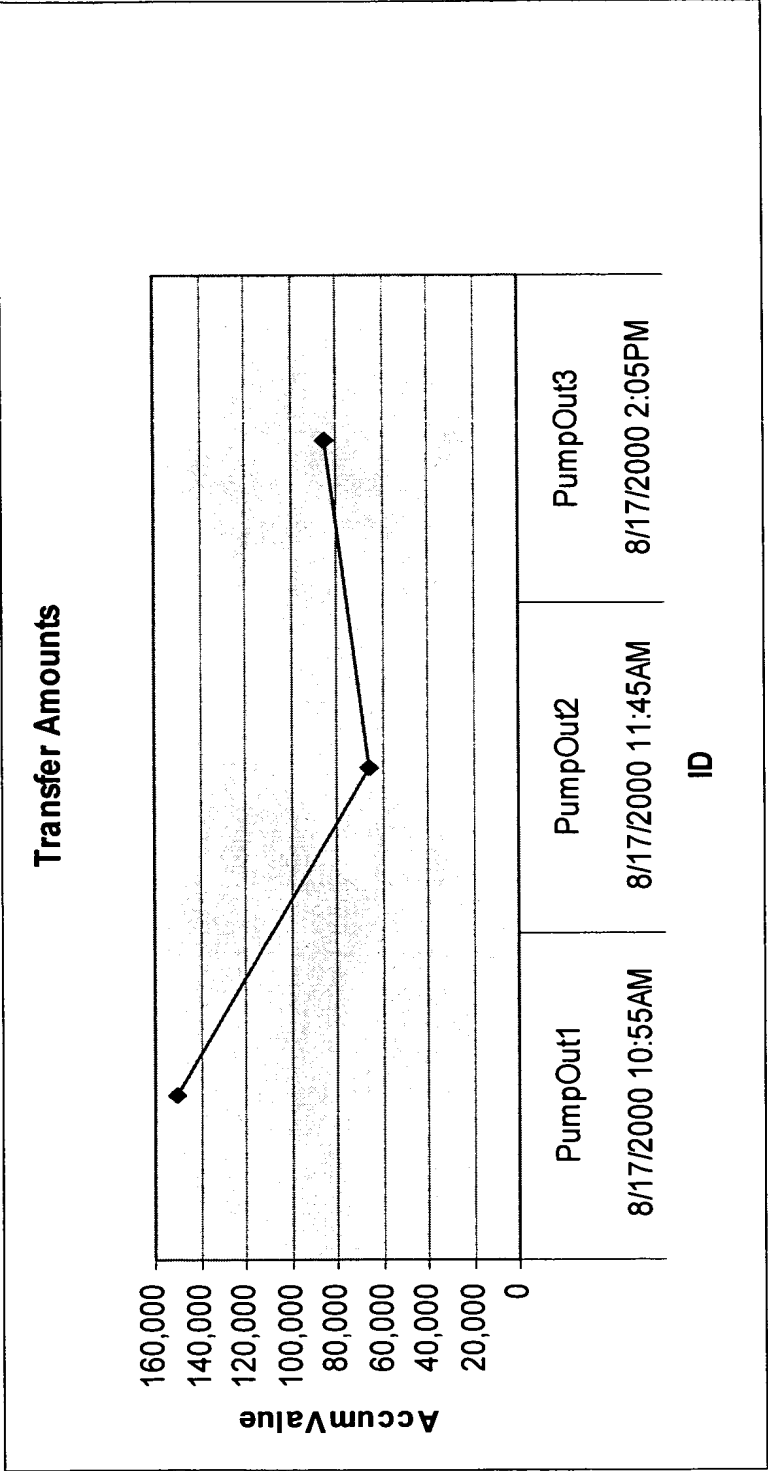


Fig. 12

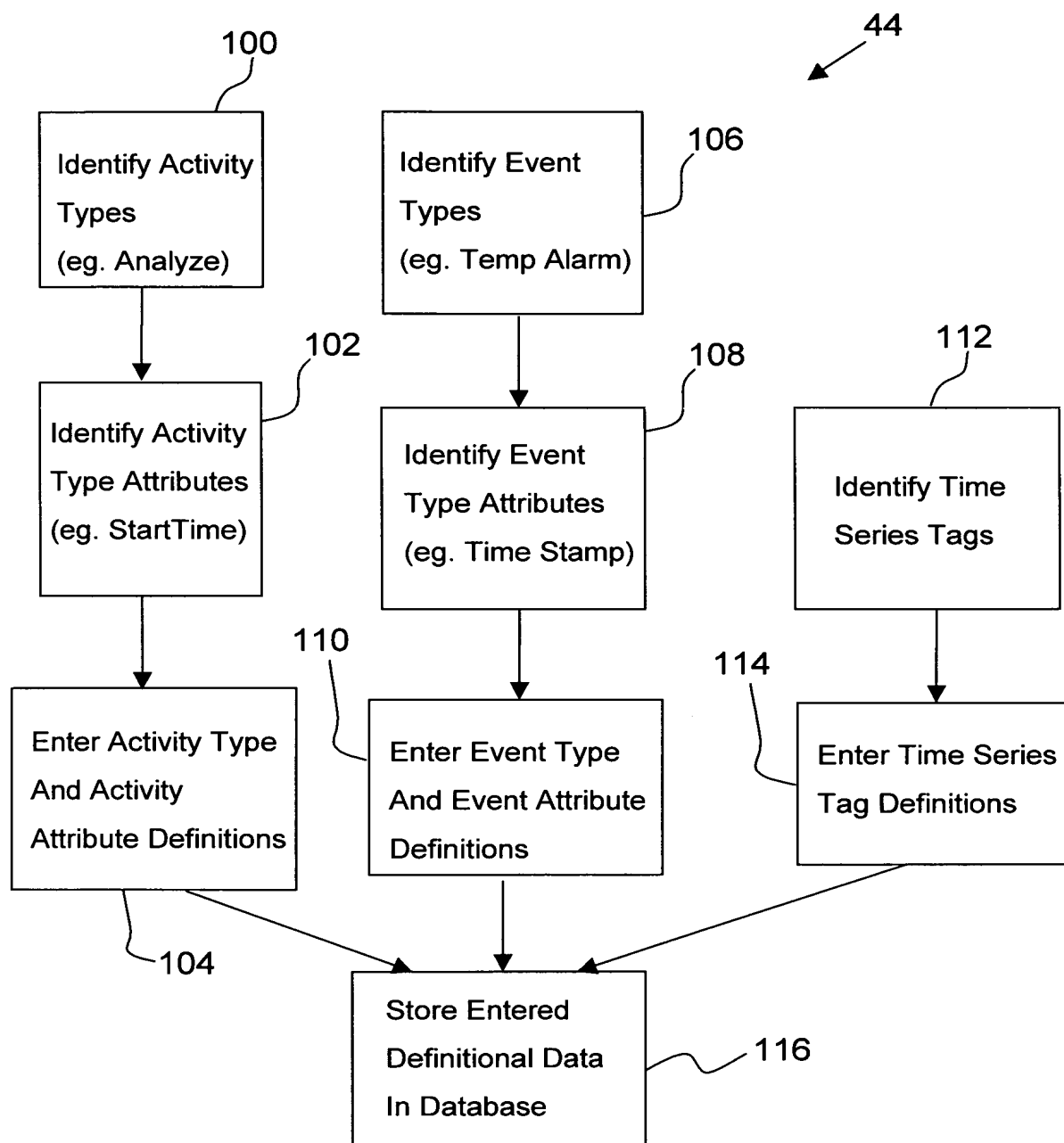


Fig. 13

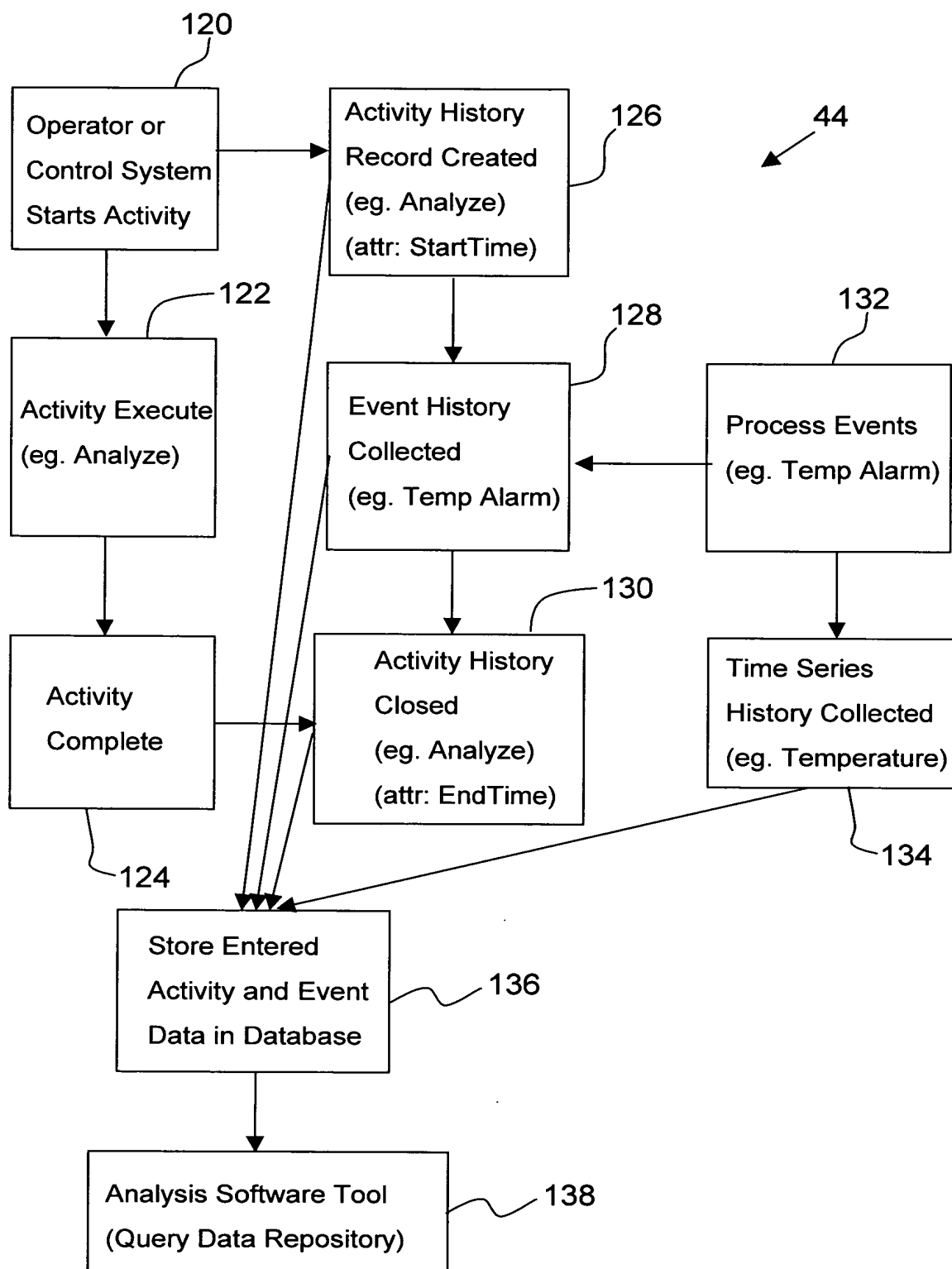


Fig. 14